SPYWOLF

Security Audit Report

Audit prepared for

Kitty Mafia

Completed on

March 08, 2024

KEY RESULTS

Cannot mint new tokens	Passed
Cannot pause trading (honeypot)	Passed
Cannot blacklist an address	Passed
Cannot raise taxes over 25%?	Passed
No proxy contract detected	Passed
Not required to enable trading	Passed
No hidden ownership	Passed
Cannot change the router	Passed
No cooldown feature found	Passed
Bot protection delay is lower than 5 blocks	Passed
Cannot set max tx amount below 0.05% of total supply	Passed
The contract cannot be self-destructed by owner	Passed

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

*Only new deposits/reinvestments can be paused

OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team’s evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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Kitty Mafia

PROJECT DESCRIPTION

According to their whitepaper:

In the spirit of Kitty Mafia audacity and innovation, Kitty Mafia Token emerges as a beacon of possibility, pushing the boundaries of what a cryptocurrency can achieve. Join us on this exhilarating journey as Kitty Mafia token leads the charge toward a decentralized future, inspired by the very best in visionary leadership.

Release Date: Presale starts in March, 2024

Category: Meme token

CONTRACT INFO

Token Name
Kitty Mafia

Symbol
KMF

Contract Address
0x34e19873Df6A0547095bbFCF57A39F7F51cC636A

Network
Binance Smart Chain

Language
Solidity

Deployment Date
March 05, 2024

Contract Type
Token with fees

Total Supply
1,000,000,000,000

Status
Not launched

TAXES

Buy Tax
3%

Sell Tax
3%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000000000 KMF
Median Transfer Amount	1000000000000 KMF
Average Transfer Amount	1000000000000 KMF
First transfer date	2024-03-05
Last transfer date	2024-03-05
Days token transferred	1

SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	2024-03-05 09:45:39 UTC
Created	2024-03-05 09:45:39 UTC
Create TX	0xa6fe21bdd439c0d57d0f2bb8750abc89ca56dd3c64cc8abc44618202818bb57b
Creator	0xb822c98547fa0bc4d92340cc89cadb30bfc41c08

FEATURED WALLETS

Owner address	0xB822C98547fA0bC4d92340Cc89CADB30bfC41c08
Fee receiver	Same as owner
LP address	0xDB3ba0F84DFa4b32673C0A4c2e059621f41b7cC0

TOP 3 UNLOCKED WALLETS

100%	Same as owner Tokens are not distributed yet
N/A	
N/A	

VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	**Passed**
SWC-101	Integer Overflow and Underflow	**Passed**
SWC-102	Outdated Compiler Version	**Passed**
SWC-103	Floating Pragma	**Passed**
SWC-104	Unchecked Call Return Value	**Passed**
SWC-105	Unprotected Ether Withdrawal	**Passed**
SWC-106	Unprotected SELFDESTRUCT Instruction	**Passed**
SWC-107	Reentrancy	**Passed**
SWC-108	State Variable Default Visibility	**Passed**
SWC-109	Uninitialized Storage Pointer	**Passed**
SWC-110	Assert Violation	**Passed**
SWC-111	Use of Deprecated Solidity Functions	**Passed**
SWC-112	Delegatecall to Untrusted Callee	**Passed**
SWC-113	DoS with Failed Call	**Passed**
SWC-114	Transaction Order Dependence	**Passed**
SWC-115	Authorization through tx.origin	**Passed**
SWC-116	Block values as a proxy for time	**Passed**
SWC-117	Signature Malleability	**Passed**
SWC-118	Incorrect Constructor Name	**Passed**

VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed

VULNERABILITY ANALYSIS

NO ERRORS FOUND

MANUAL
CODE REVIEW

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

THREAT LEVELS

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ Medium Risk

If contract balances are lower than the requested amount for send, contract will halt on sell.

```
function sendValue(address payable recipient, uint256 amount) internal returns(bool){
    require(address(this).balance >= amount, "Address: insufficient balance");

    (bool success, ) = recipient.call{value: amount}("");
    return success; // always proceeds
}


function swapAndSendFee(uint256 tokenAmount) private {
    uint256 initialBalance = address(this).balance;

    address[] memory path = new address[](2);
    path[0] = address(this);
    path[1] = uniswapV2Router.WETH();

    try uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
        tokenAmount,
        0,
        path,
        address(this),
        block.timestamp
    ) {} catch {
        return;
    }

    uint256 newBalance = address(this).balance - initialBalance;

    payable(feeReceiver).sendValue(newBalance);

    emit SwapAndSendFee(tokenAmount, newBalance);
}
```

- Recommendation:
  - Remove the require statement in sendValue() function

FOUND THREATS

Informational

Owner can set buy and sell fees up to 5%.
Combined buy+sell = 10%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.
Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function updateFees(uint256 _feeOnSell, uint256 _feeOnBuy) external onlyOwner {
    feeOnBuy = _feeOnBuy;
    feeOnSell = _feeOnSell;

    require(feeOnBuy <= 5, "KMF: Total Fees cannot exceed the maximum");
    require(feeOnSell <= 5, "KMF: Total Fees cannot exceed the maximum");

    emit UpdateFees(feeOnSell, feeOnBuy);
}
```

Owner can change fee receiver wallet.

```
function changeFeeReceiver(address _feeReceiver) external onlyOwner{
    require(_feeReceiver != address(0), "KMF: Fee receiver cannot be the zero address");
    feeReceiver = _feeReceiver;

    emit FeeReceiverChanged(feeReceiver);
}
```

FOUND THREATS

Informational

Owner can exclude address from fees.
When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded) external onlyOwner{
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}
```

Owner can withdraw any tokens from the contract, except the native KMF token.
When this function is present, in cases tokens and/or bnb are sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "KMF: Owner cannot claim contract's balance of its own tokens");
    if (token == address(0x0)) {
        payable(msg.sender).sendValue(address(this).balance);
        return;
    }

    IERC20(token).transfer(msg.sender, IERC20(token).balanceOf(address(this)));
}
```

FOUND THREATS

Informational

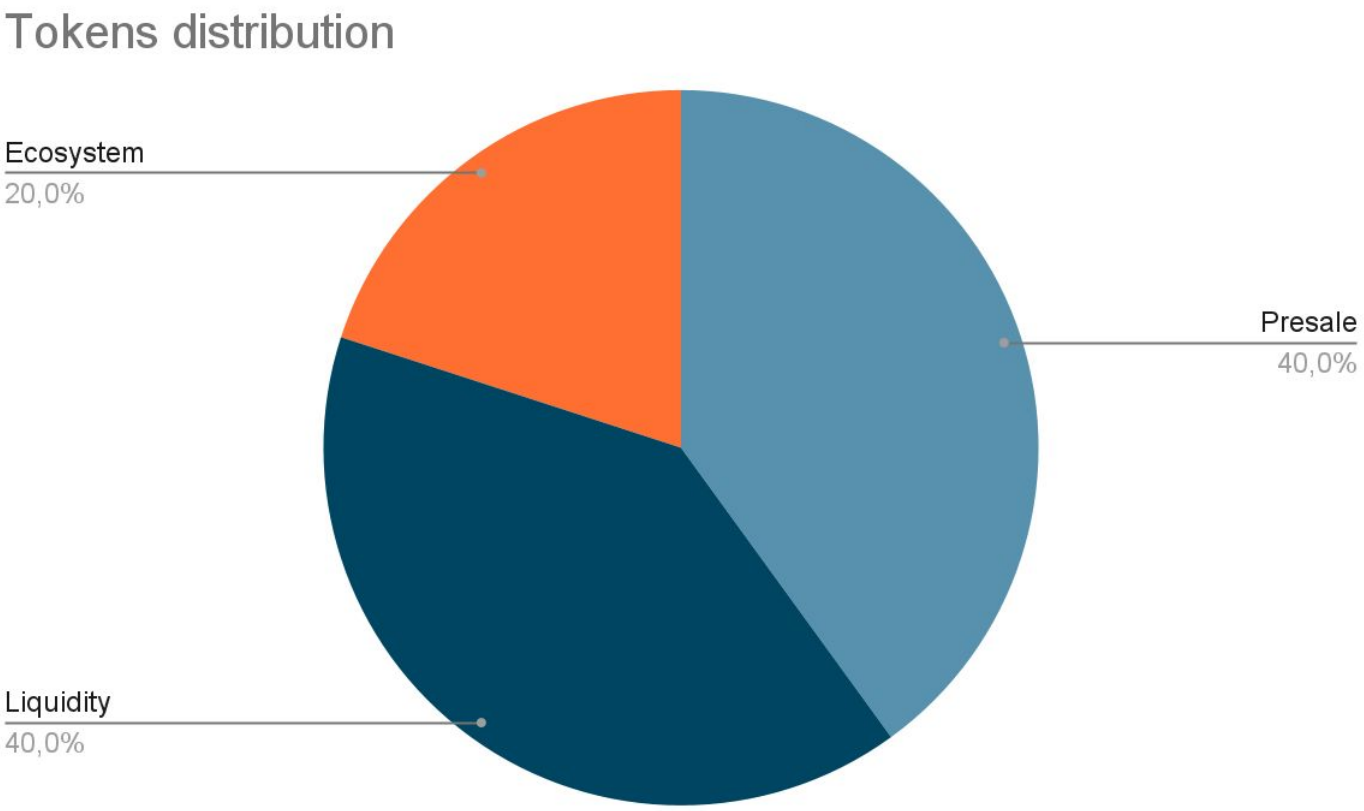
If users sell their entire balance at once, they can sell up to 99.99% of their current balance, 0.001% of their holdings will remain in their wallet.

```
function _transfer(address from,address to,uint256 amount) internal  override {
.....................
if (!_isExcludedFromFees[from] && !_isExcludedFromFees[to] && from != uniswapV2Pair && !swapping) {
    if (amount == balanceOf(from)){
        amount -= amount / 100_000;
    }
}
.....................
}
```

TOKENOMICS

The following tokenomics are based on the project's whitepaper and/or website:

- 40% - Presale
- 40% - Liquidity
- 20% - Ecosystem



WEBSITE

Website URL
https://kittymafia.xyz

Domain Registry
https://www.hostinger.com/

Domain Expiration
2025-02-28

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Single page design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found..

Whitepaper
No

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes

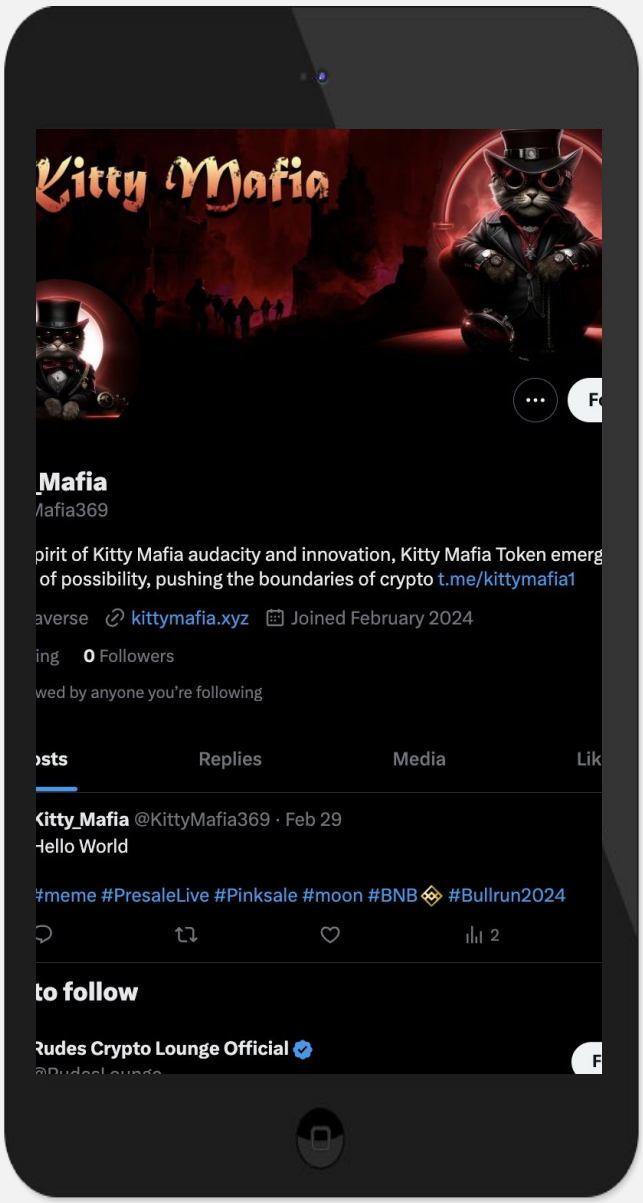
kittymafia.xyz

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Project's social media pages are new



Twitter's X

@KittyMafia369

- 1 follower
- New account

Discord

- Not available

Telegram

@kittyMafia1

- 1 member
- New account

Medium

- Not available

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.